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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of Govt. School Rooms, Palanahalli and Kattigehalli Village in Ward No.05 (Palanahalli)
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.T K SHANKARAPPA (MESPC INFRA PROJECTS PRIVATE LIMITED)
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	20 mm down size	Proposed Use	Concrete	
Sample Location	At Plant	Date of Sampling	28-02-2019	
		Date of Testing	28-02-2019	

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	272	272	2.72	97.28	95 - 100
10.00 mm	4650	4922	49.22	50.78	25 - 55
4.75 mm	4563	9485	94.85	5.15	0 - 10
Pan	515	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

Consultant's Representative

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TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Construction of Govt. School Rooms, Palanahalli and Kattigehalli Village in Ward No.05 (Palanahalli)				
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore				
Contractor	Sri.T K SHANKARAPPA (MESPC INFRA PROJECTS PRIVATE LIMITED)				
Total Weight:	10000	gms			
SIEVE ANALYSIS					
Type of Material	20 mm down size		**Proposed Use**	Concrete	
Sample Location	At Plant		**Date of Sampling**	28-02-2019	
			Date of Testing	28-02-2019	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
40.00 mm	0	0	0	100	100
20.00 mm	263	263	2.63	97.37	95 - 100
10.00 mm	4986	5249	52.49	47.51	25 - 55
4.75 mm	4325	9574	95.74	4.26	0 - 10
Pan	426	10000			
Remarks :	✓ Satisfactory / Not Satisfactory				

28/02

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CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC/TK/Ward No.05/2019-20 Date: 28.02.2019

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Bruhath Bangalore Mahanagara Palike.**

Agency : **Sri.T K SHANKARAPPA (MESPC INFRA PROJECTS PRIVATE LIMITED)**

Name of Work : 1. Construction of Govt. School Rooms, Palanahalli and Kattigehalli Village in Ward No.05 (Palanahalli) 2. Improvement to Roads and Drains in Agrahara, Agrahara Layout and Surrounding area in Ward No.05 3. Improvement to Roads and Drains in Kogilu Layout and Surrounding area in Ward No.05 4. Improvement to Roads and Drains at Tirumenahalli and Surrounding area in Ward No.05 5. Improvement to Roads and Drains from Jakkur Double Road to Jakkur Village Surrounding area in Ward No.05.

Refrence : EE/JN/DM/PR/TEND/W.O/202/18-19 Date: 08.03.2019

Sample Identification : 8mm, 10mm, 12mm, 16mm, 20mm Fe 500TMT Bars

Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)

Date of test: : 28.02.2019

SLNo	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
			0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	8	0.396	524	553	17
2	10	0.617	536	562	19
3	12	0.889	549	575	20
4	16	1.580	563	593	22
5	20	2.450	578	612	23

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

For Civil Experts

Authorised Signature

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

29/05

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Construction of Govt. School Rooms, Palanahalli and Kattigehalli Village in Ward No.05 (Palanahalli)	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor		
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size		Proposed Use	Concrete	
Sample Location	Plant		Date of Sampling	01-03-2019	
			Date of Testing	01-03-2019	
IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	581	581	5.81	94.19	90-100
10.0	3362	3943	39.43	60.57	40-85
4.75	5495	9438	94.38	5.62	0-10
Pan	562	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

29/06

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Construction of Govt. School Rooms, Palanahalli and Kattigehalli Village in Ward No.05 (Palanahalli)	
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
Contractor		
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size		Proposed Use	Concrete	
Sample Location	Plant		Date of Sampling	01-03-2019	
			Date of Testing	01-03-2019	
IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	580	580	5.80	94.20	90-100
10.0	3342	3922	39.22	60.78	40-85
4.75	5418	9340	93.40	6.60	0-10
Pan	660	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

29/06

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of Govt. School Rooms, Palanahalli and Kattigehalli Village in Ward No.05 (Palanahalli)
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.T K SHANKARAPPA (MESPC INFRA PROJECTS PRIVATE LIMITED)

SPECIFIC GRAVITY AND WATER ABSORPTION
FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Sand/M sand	Proposed Use	Concrete
Location/Source	At Plant/site	Date of Sampling	01-03-2019
Period of Soaking	24 hours	Date of Testing	01-03-2019

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	Average
A	Weight of sturated surface dry sample gm.	662	664	667	
B	Weight of oven - dry sample gm.	651	653	654	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1693	1691	1692	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.668	2.633	2.616	**2.639**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.690	1.685	1.988	**1.787**

29/06

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TEST REPORT	
Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of Govt. School Rooms, Palanahalli and Kattigehalli Village in Ward No.05 (Palanahalli)
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.T K SHANKARAPPA (MESPC INFRA PROJECTS PRIVATE LIMITED)

SIEVE ANALYSIS

Total Weight:	3000 gms				
Type of Materia	Fine aggregate (River Sand/M sand)		Proposed Use	Concrete	
Sample Location	At Plant/site		Date of Sampling	01-03-2019	
			Date of Testing	01-03-2019	
IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	230	230	7.67	92.33	90 - 100
2.36 mm	278	508	16.93	83.07	75 - 100
1.18 mm	523	1031	34.37	65.63	55 - 90
0.600 mm	550	1581	52.70	47.30	35 -59
0.300 mm	680	2261	75.37	24.63	8-30
0.150 mm	514	2775	92.50	7.50	0 - 10
Pan	225	3000			-
Remarks :		✓ Satisfactory / Not Satisfactory			

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TEST REPORT	
Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of Govt. School Rooms, Palanahalli and Kattigehalli Village in Ward No.05 (Palanahalli)
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.T K SHANKARAPPA (MESPC INFRA PROJECTS PRIVATE LIMITED)

SPECIFIC GRAVITY AND WATER ABSORPTION
FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Sand/M sand	Proposed Use	Concrete
Location/Source	At Plant/site	Date of Sampling	01-03-2019
Period of Soaking	24 hours	Date of Testing	01-03-2019

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	Average
A	Weight of sturated surface dry sample gm.	651	653	676	
B	Weight of oven - dry sample gm.	640	642	665	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1673	1688	1698	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.530	2.675	2.628	**2.611**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.719	1.713	1.654	**1.695**

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TEST REPORT	
Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of Govt. School Rooms, Palanahalli and Kattigehalli Village in Ward No.05 (Palanahalli)
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.T K SHANKARAPPA (MESPC INFRA PROJECTS PRIVATE LIMITED)

SIEVE ANALYSIS

Total Weight:	3000	gms			
Type of Materia	Fine aggregate (River Sand/M sand)		Proposed Use	Concrete	
Sample Location	At Plant/site		Date of Sampling	01-03-2019	
			Date of Testing	01-03-2019	
IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	241	241	8.03	91.97	90 - 100
2.36 mm	274	515	17.17	82.83	75 - 100
1.18 mm	413	928	30.93	69.07	55 - 90
0.600 mm	576	1504	50.13	49.87	35 -59
0.300 mm	742	2246	74.87	25.13	8-30
0.150 mm	615	2861	95.37	4.63	0 - 10
Pan	139	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

29/06

Consultant's Representative

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Test Report on Cement

Project	Construction of Govt. School Rooms, Palanahalli and Kattigehalli Village in Ward No.05 (Palanahalli)
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.T K SHANKARAPPA (MESPC INFRA PROJECTS PRIVATE LIMITED)
Sample ID	Cement
Date of Sample Tested	01-03-2019
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	37 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	385	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	-

29/06

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Test Report on Cement

Project	Construction of Govt. School Rooms, Palanahalli and Kattigehalli Village in Ward No.05 (Palanahalli)
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.T K SHANKARAPPA (MESPC INFRA PROJECTS PRIVATE LIMITED)
Sample ID	Cement
Date of Sample Tested	01-03-2019
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	38 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	388	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	

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TEST REPORT	
Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of Govt. School Rooms, Palanahalli and Kattigehalli Village in Ward No.05 (Kattigehalli)
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.T K SHANKARAPPA (MESPC INFRA PROJECTS PRIVATE LIMITED)
Total Weight in gr	3000

SIEVE ANALYSIS

Type of Material	40 mm down size			Proposed Use	PCC
Sample Location	At Site			Date of Sampling	02-03-2019
				Date of Testing	02-03-2019
IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	98	98	3.27	96.73	95-100
20.00mm	1468	1566	52.20	47.80	30-70
10.00mm	632	2198	73.27	26.73	10-35
4.75mm	720	2918	97.27	2.73	0-5
Pan	82	3000	100.00	0.00	

Remarks : ✓ Satisfactory / Not Satisfactory

29/06

Consultant's Representative

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TEST REPORT	
Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of Govt. School Rooms, Palanahalli and Kattigehalli Village in Ward No.05 (Kattigehalli)
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.T K SHANKARAPPA (MESPC INFRA PROJECTS PRIVATE LIMITED)
Total Weight in gr	3000

SIEVE ANALYSIS

Type of Material	40 mm down size			**Proposed Use**	P.C.C
Sample Location	At Site			**Date of Sampling**	02-03-2019
				Date of Testing	02-03-2019
IS Sieve Size	**Weight Retained in gm**	**Cum. Weight Retained in gm**	**Cumulative Weight Retained in %**	**Cumulative Weight Passing in %**	**Specific Limits as per IS 383-1970 (RA-2007)**
					% of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	99	99	3.30	96.70	95-100
20.00mm	1466	1565	52.17	47.83	30-70
10.00mm	630	2195	73.17	26.83	10-35
4.75mm	720	2915	97.17	2.83	0-5
Pan	85	3000	100.00	0.00	

Remarks : ✓ Satisfactory / Not Satisfactory

29/06

Consultant's Representative

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Test Report on Cement

Project	Construction of Govt. School Rooms, Palanahalli and Kattigehalli Village in Ward No.05 (Palanahalli)
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.T K SHANKARAPPA (MESPC INFRA PROJECTS PRIVATE LIMITED)
Sample ID	Cement
Date of Sample Tested	02-03-2019
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	34 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	382	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	

29/03

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of Govt. School Rooms, Palanahalli and Kattigehalli Village in Ward No.05 (Palanahalli)
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.T K SHANKARAPPA (MESPC INFRA PROJECTS PRIVATE LIMITED)

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Sand/M sand	Proposed Use	P.C.C
Location/Source	At Plant/site	Date of Sampling	02-03-2019
Period of Soaking	24 hours	Date of Testing	02-03-2019

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	Average
A	Weight of sturated surface dry sample gm.	682	683	692	
B	Weight of oven - dry sample gm.	673	675	685	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1698	1698	1708	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.598	2.596	2.645	**2.613**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.337	1.185	1.022	**1.181**

29/06

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